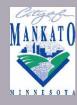
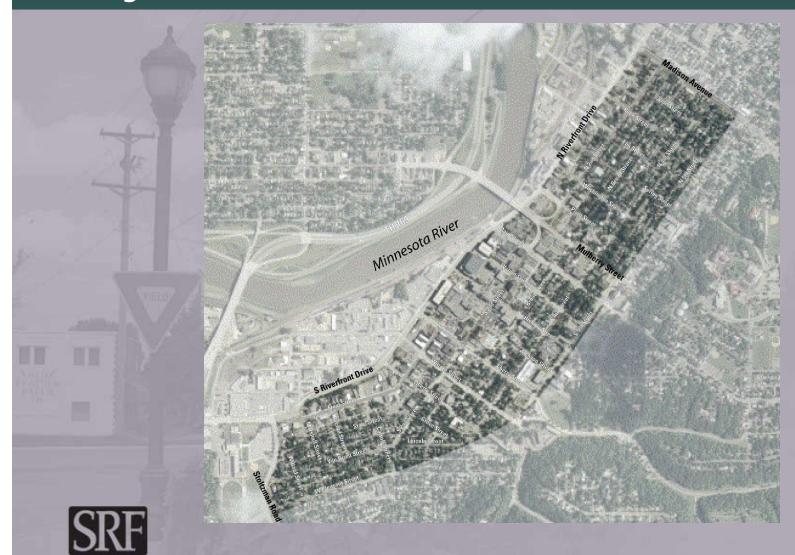
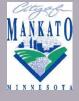
Mankate Downtown Traffic Study





Project Area

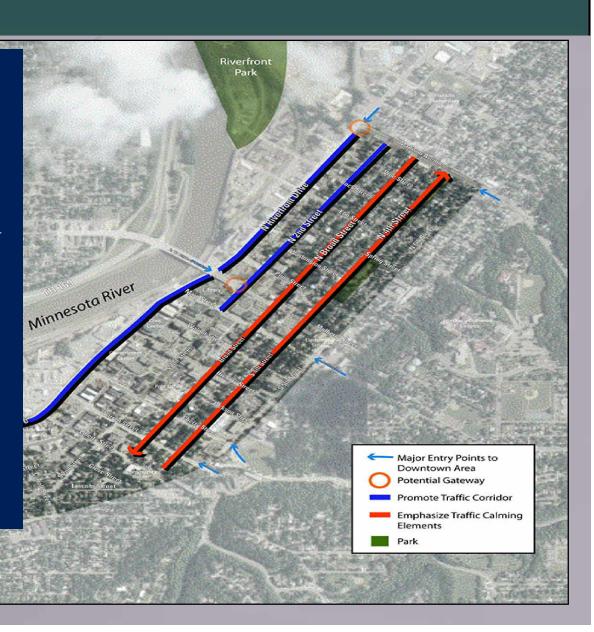




Project Intent

Enhance livability of 4th Street & Broad Street by reducing traffic speeds and diverting traffic to 2nd Street & Riverfront Drive

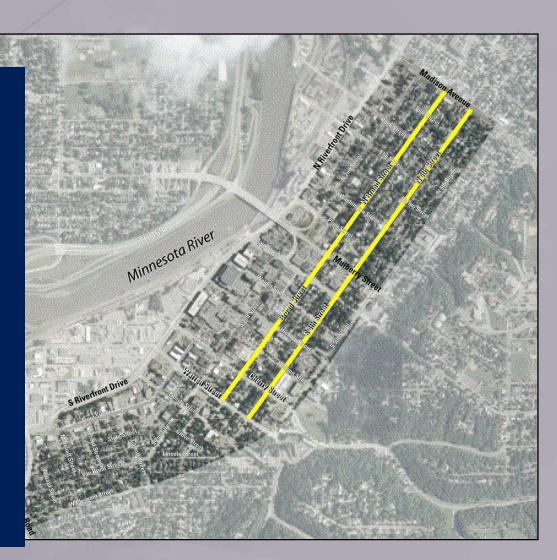
Increase economic vitality of Riverfront Drive & 2nd Street



Traffic Data

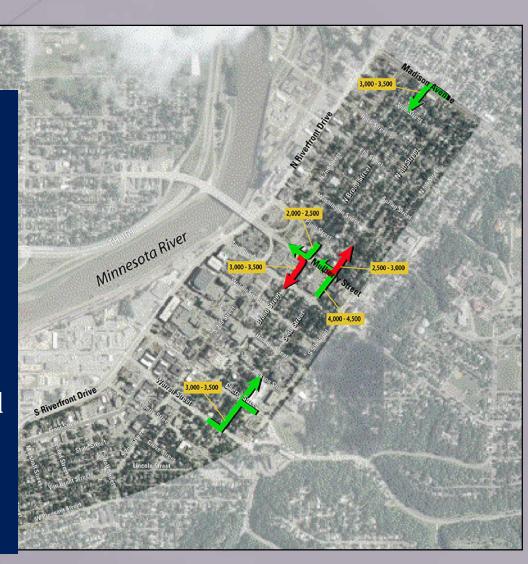
Existing residential units along Broad and 4th Streets account for roughly 25 percent of vehicles per day on any given segment of the two roadways between Madison Avenue and Warren Street.

These vehicles cannot be removed from the two roadways.



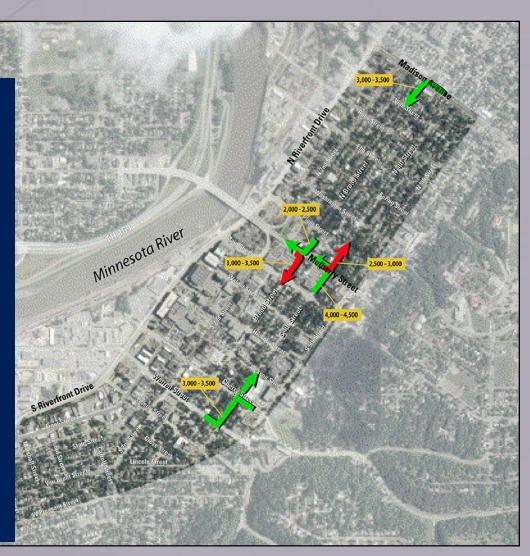
There are few trips that travel full length between Madison Avenue and Warren/Cherry

- On Broad and 4th Street, most trips are between:
 - Madison Avenue and Mulberry Street
 - Mulberry Street and Warren/Cherry

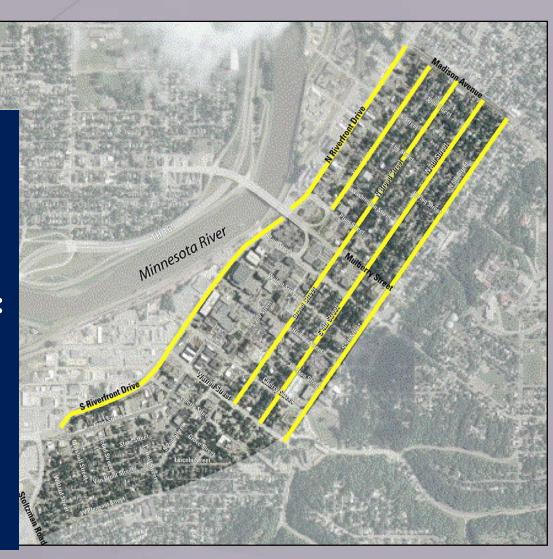


• Roadways within the downtown study area are currently well below capacity.

• Existing intersection levels of service (LOS) are good, with all of the study intersections operating at LOS B or better during the p.m. peak hour.

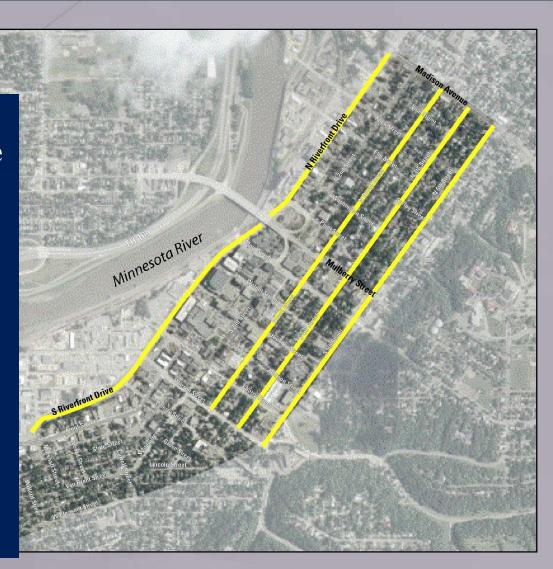


- 85th percentile speeds are 10 to 20 percent higher than the posted speeds on selected segments of:
 - Riverfront Drive
 - 2nd Street
 - 4th Street
 - Broad Street
 - 5th Street



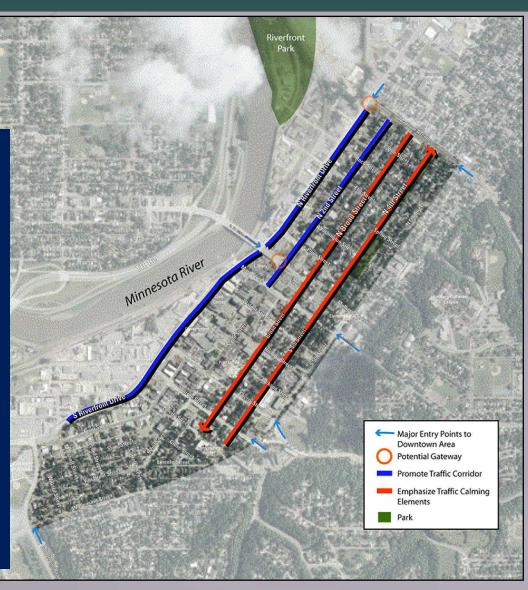
There is little difference between the off-peak (1:30 p.m. to 3:30 p.m.) and the peak (4:00 p.m. to 6:00 p.m.) travel times along

- Riverfront Drive
- 4th Street
- Broad Street
- 5th Street



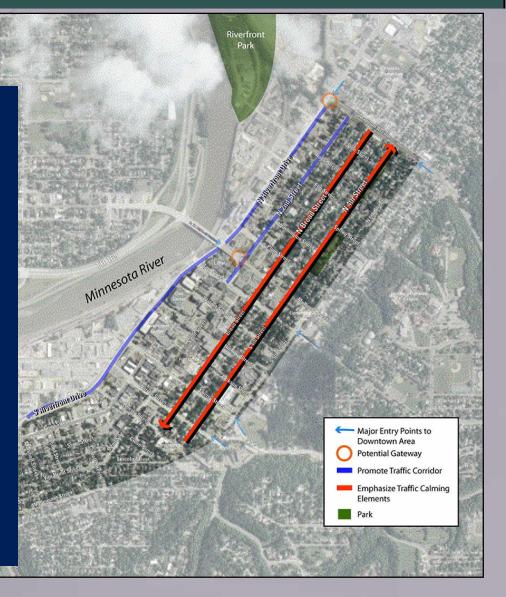
Traffic Analysis

Traffic Calming on Broad and 4th Streets, combined with improved parallel routes (Riverfront Drive and 2nd Street), has the potential to reduce 20 to 25 percent of the traffic along Broad and 4th Streets

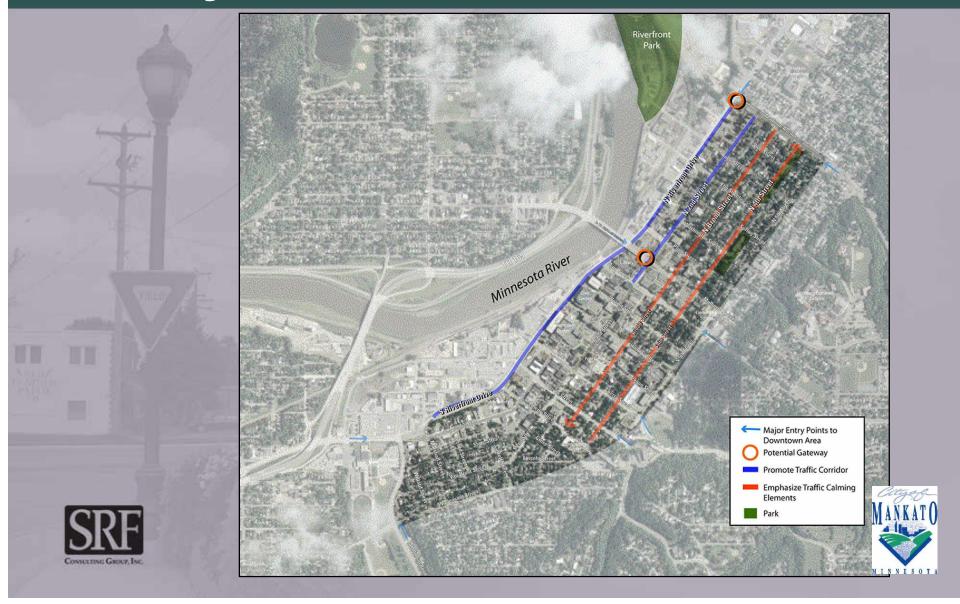


Project Goals

- Identify alternatives to increase/create more livable streets on 4th Street and Broad Street by reducing traffic volumes and speed.
- Promote 2nd Street as a traffic corridor
- Identify gateway treatments to provide a sense of entry to the downtown area
- Identify opportunities for improving the aesthetics along Riverfront Drive



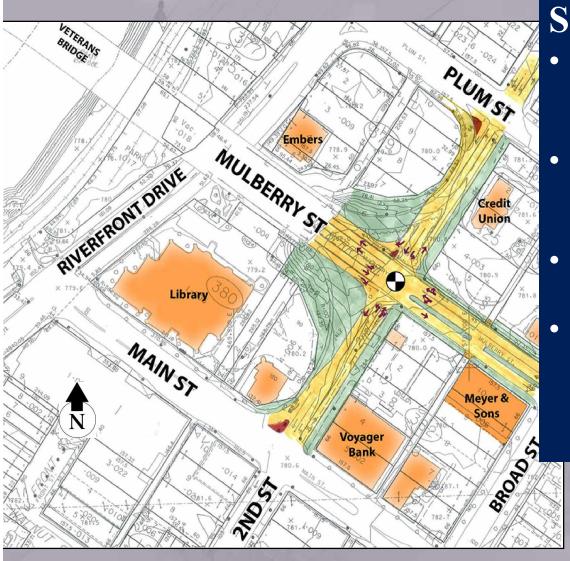
Primary Intersections



Mulberry Avenue & 2nd Street



Mulberry Avenue & 2nd Street



Signalization

- Opportunity for gateway in NW & SW quadrants
- Greater opportunity to discourage certain traffic movements
- Balances downtown traffic
- Reestablish the grid system and reconnects the downtown

Mulberry Avenue & 2nd Street



View from Bridge





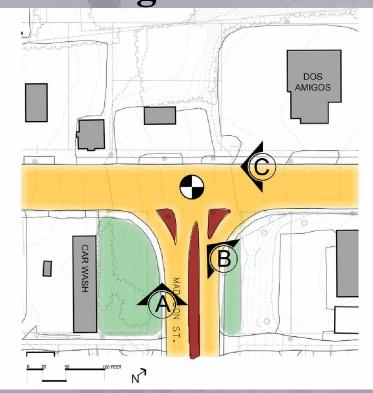
Community Gateway

Mulberry Avenue & 2nd Street



Madison Avenue & Riverfront Drive

Existing Conditions







A - View looking northwest



B - View looking west across Madison Avenue



C - View looking south



Madison Avenue & Riverfront Drive

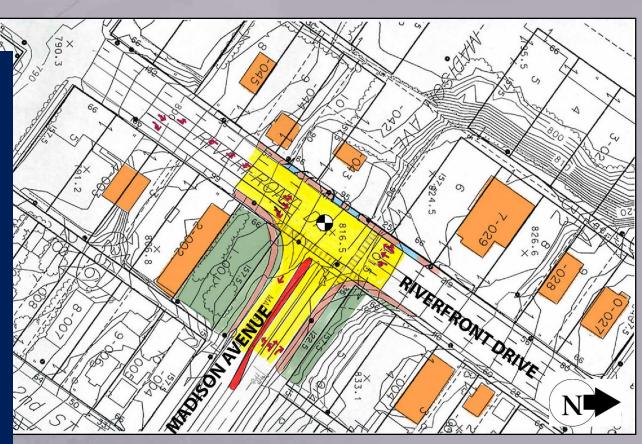
Geometric & Signal Improvements

Pros:

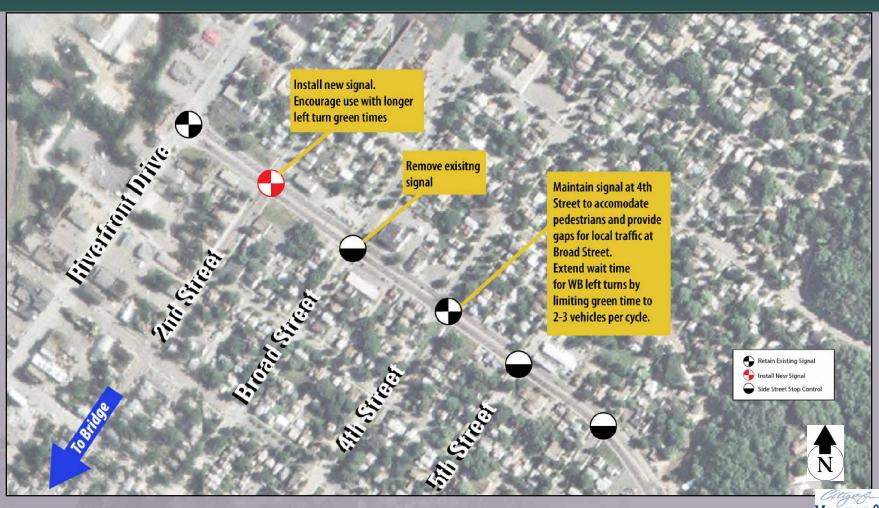
- More efficient traffic operations
- Revisions occur within existing curb lines
- Pedestrian friendly

Cons:

Limited opportunity for gateway options



Madison Avenue





Old Town Gateway

Madison Avenue & Riverfront Drive



Riverfront Drive - Existing Conditions

- Unfriendly pedestrian atmosphere
- Meandering centerline leads to driver confusion and lack of uniformity
- Intermittent parking
- Wide variety of adjacent land uses







Old Town District - Vision

(Riverfront Drive)

- Strengthen specialty retail and entertainment land uses
- Promote pedestrian scaled street
- Increase on-street parking
- Increase traffic efficiency







Old Town District - Objectives

(Riverfront Drive)

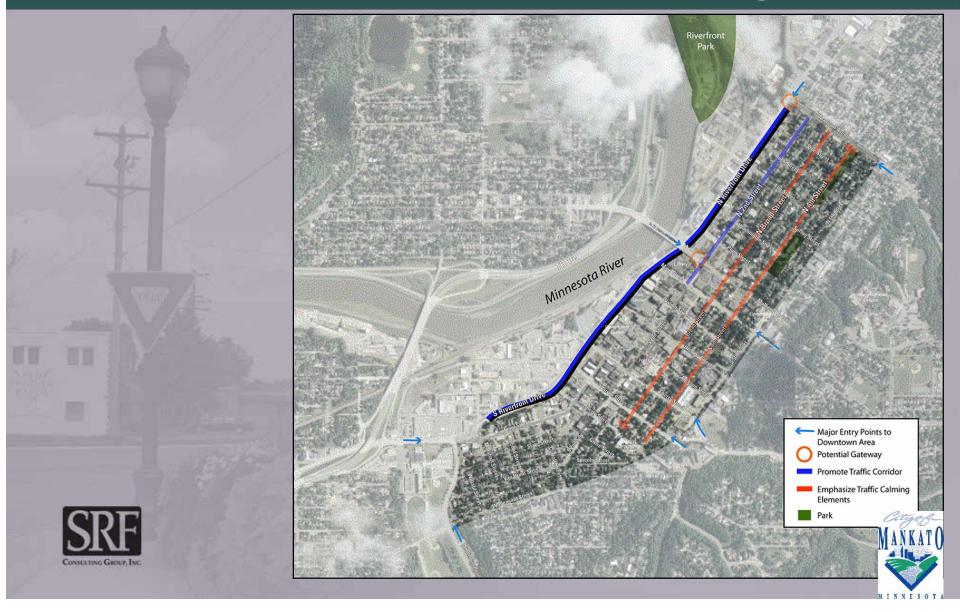
- Revise street cross section
- Modify intersection control at select intersections
- Reorganize parcel access
- Improve streetscape appearance
- Promote redevelopment and building in fill
- Organize off-street parking





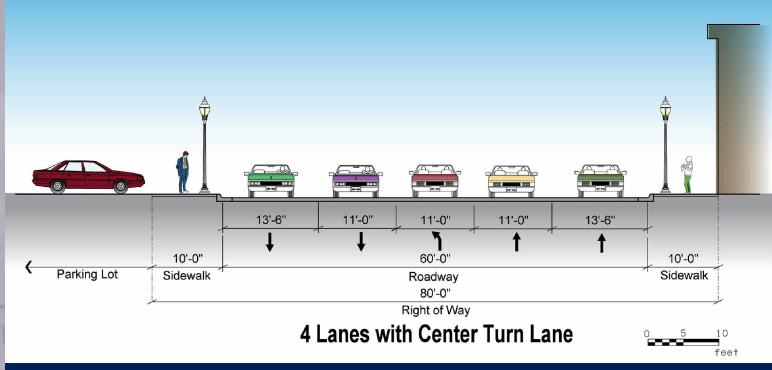


Riverfront Drive - Street Configuration



Riverfront Drive - Existing Conditions

Old Town (Madison Avenue to Plum Street)

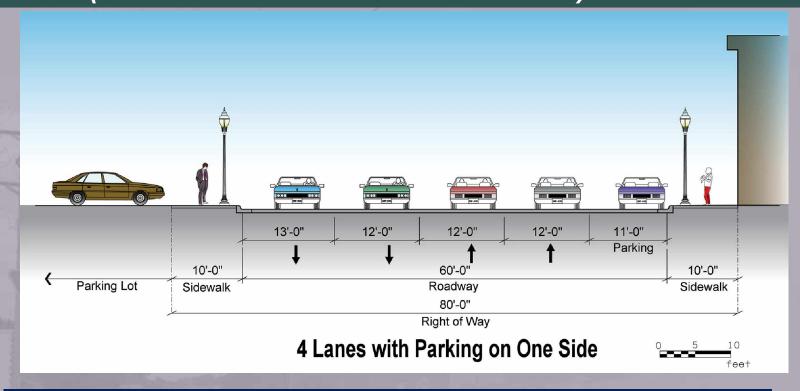


- Between Plum Street and Washington Street, and between Rock Street and Madison Avenue
- Principal Arterial





Riverfront Drive - Existing Conditions Old Town (Madison Avenue to Plum Street)



• Between Washington Street and Rock Street

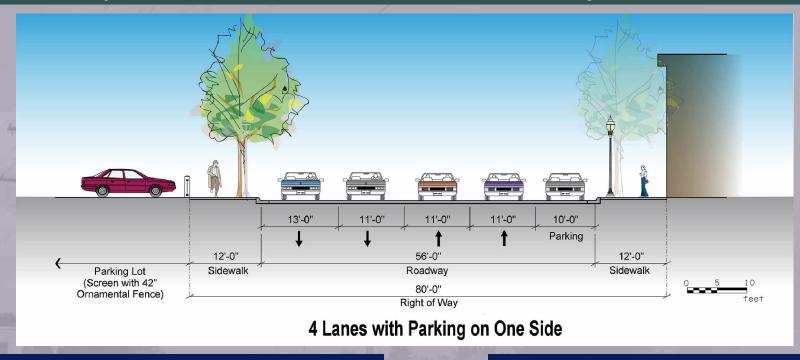
• Principal Arterial





Riverfront Drive

Old Town (Madison Avenue to Plum Street)



Pros:

- On-street parking adjacent to a majority of retail uses
- Bumpouts adjacent to parking increase pedestrian safety
- Increase sidewalk widths

Cons:

- No dedicated left-turn lanes
- Parking and bumpouts restricted to one side of street

Riverfront Drive - Parcel Access Modifications Old Town (Madison Avenue to Plum Street)



9 Access Drives Proposed for Closure

= Existing Access

= Access Closure

= City Owned Parking Lots & Alleys

— = Truck Movement

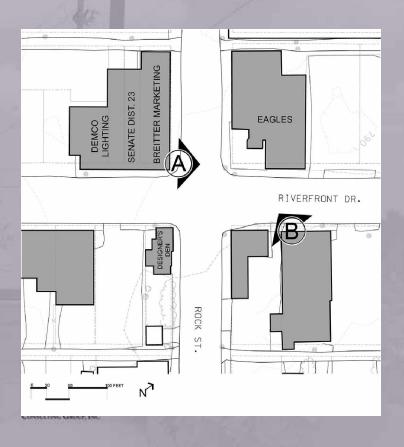




Future Park Gateway

Riverfront Drive at Rock Street

Existing Conditions



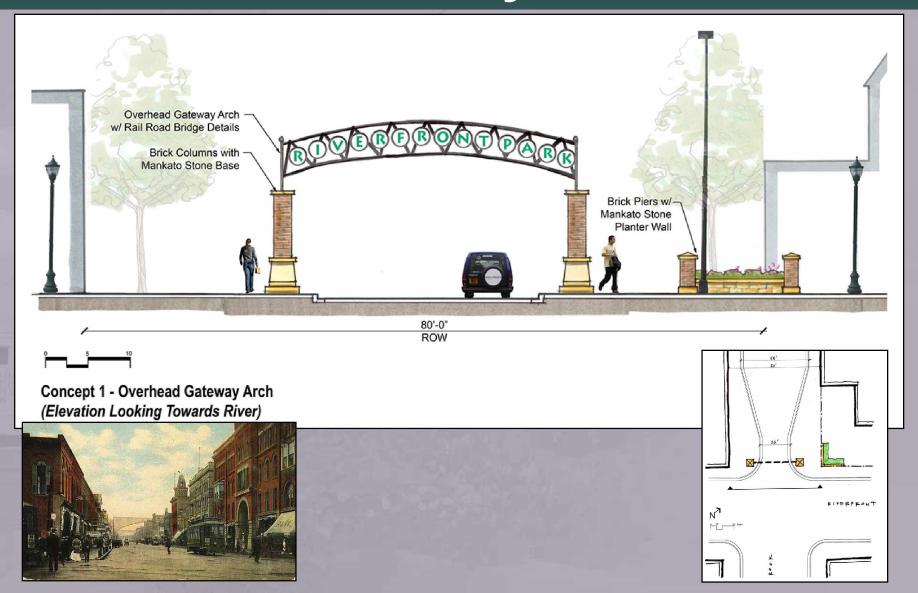


A - View looking northeast



B - View looking west

Future Park Gateway



Riverfront Drive - Objective

(Plum Street to Marshall Street)

- Unified streetscape appearance
- Materials reflect community
- Seasonal colors
- Durability and maintenance







Riverfront Drive - Existing Conditions

(Plum Street to Marshall Street)



Wide Medians



Narrow Medians





Riverfront Drive - Wide Median





ELEVATION - NOT TO SCALE

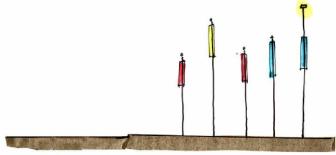
- New Ulm Quartize Maintenance Strip Along Edge
- Turf Grass and Trees in Median
- New Ulm Quartize Raised Planter with Perennial Plantings
- Existing Lights with Colored Banners





Riverfront Drive - Narrow Median





ELEVATION - NOT TO SCALE

- New Ulm Quartize Paved Median
- Existing Light Fixtures and Poles with Colored Banners
- Cluster Banner Poles of Various Heights Near End of Median





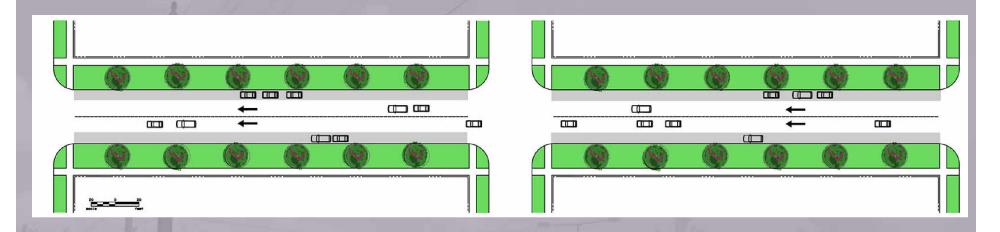
4th Street & Broad Street - Existing Conditions

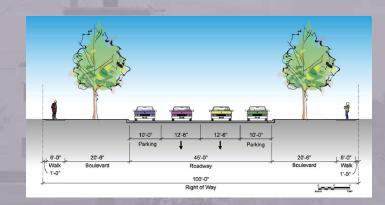
- One-way pairs
- Residential land use
- City desires to promote reinvestment/rehabilitation
- Heavy traffic volumes and speeds compromise residential livability





Broad Street - Existing Conditions

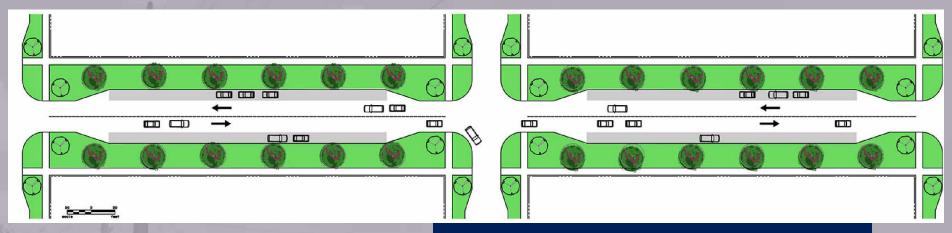


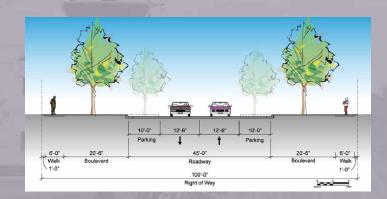




- One-way traffic (Southwest bound)
- Two travel lanes
- Two parking lanes
- Minor Arterial street classification
- 100' ROW, 45' street width

Broad Street - Neckdown

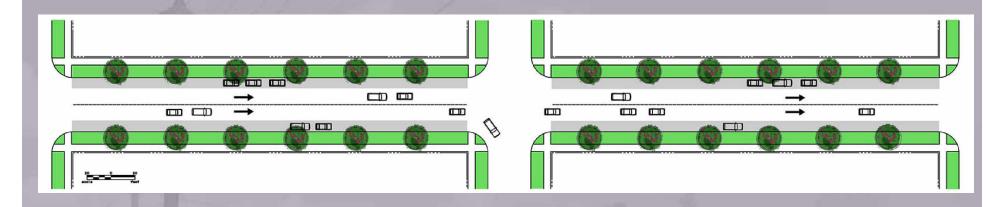


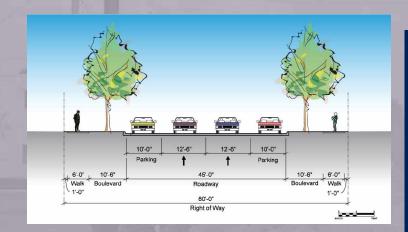




- Two-way traffic
- Protected parking bays
- Reduced pedestrian crossing distance
- Reconstruct key intersections
- At the time of full street reconstruction medians may be considered

Fourth Street - Existing Conditions

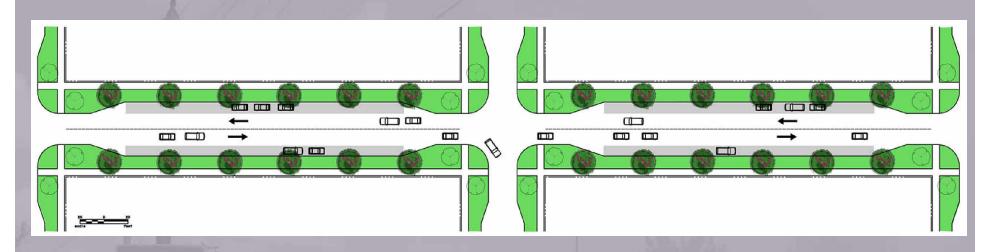


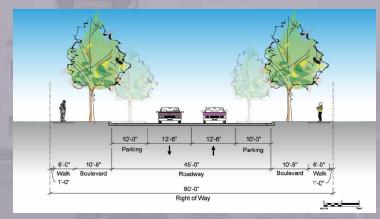




- One-way traffic (Northeast bound)
- Two travel lanes
- Two parking lanes
- Minor Arterial classification
- 80' ROW

Fourth Street - Neckdown







- Two-way traffic
- Protected parking bays
- Reduced pedestrian crossing distance
- Reconstruct key intersections

Lincoln Park

Traffic
Calming
Study is
currently in
progress for
the Lincoln
Park area.

